

along their line in every possible way, and are prepared to enter into a permanent agreement which, with the competition existing on Atlantic lines, will secure exceedingly low tariff rates between England and the coast of British Columbia. There only remains to be established the submarine telegraph across the Pacific Ocean.

When the accompanying memorandum was issued it was thought that the Pacific cable should follow a northern route by the Aleutian Islands and Japan. It was generally believed that in the great central area of the Pacific Ocean subaqueous rocky ledges and coral reefs prevailed to such an extent as to render the establishment and maintenance of an electric cable practically impossible. That opinion was based on an imperfect knowledge of the physical character of the Pacific Ocean, and on the charts which at one time were strewn with islands, reefs, and shoals, many of which were inserted on doubtful authority, and have consequently been omitted from the latest publications. Since then, also, it may be supposed that submarine telegraphy is better understood. Be that as it may, the view is now entertained that it may not be absolutely necessary to follow a northern route, and that the successful establishment of an electric cable running directly from British Columbia to the Australian Provinces may be quite within the range of practicability.

There are, indeed, extensive coral reefs in the central and southern Pacific; but the most authentic hydrographic information establishes that those reefs are generally in great groups, separated by wide and deep depressions free from obstructions. It is further revealed by the latest bathymetric data that those depressions or troughs present (as far as ascertained) a sea floor precisely similar to that of the Atlantic, so suitable for submarine telegraphy. Those ocean depressions, alike by their geographical position and their continuity, open up the prospect of connecting Canada and Australia by a direct cable. The course of the cable would be from Vancouver to the Fiji Islands, touching at the Sandwich Islands and Fanning Island as mid-stations. From the Fiji Islands a cable connection would be formed with the existing Australian and New Zealand telegraph systems.